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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 2851 Examiner: Hung Nguyen Confirmation No.: 6971 In Re PATENT APPLICATION of: Applicant(s): Ryoichi AOYAMA et al. Serial No.: 10/748,240 SECOND Filing Date: December 31, 2003 RESPONSE For: SELF-CLEANING METHOD FOR AFTER FINAL SEMICONDUCTOR EXPOSURE APPARATUS Atty. Dkt.: OKI 395 July 7, 2005

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The Applicants ask for reconsideration on the basis new facts in argument.

The attached photocopy¹ shows that quartz (recited in claim 1) ceases to transmit UV at wavelengths shorter than about 185 nm. The Examiner is invited to consider that the UV used in the field of the invention, both for lithography² and for lens cleaning,³ is close to the 185 nm wavelength at which the UV starts to be strongly absorbed. The Applicants' dependent claims recite 157 nm and 193 nm.

¹ The attached page is from Perrin and Hardy, previousy cited in the attachment to the May 31 Response.

² ArF lasers are now used for exposure, with a wavelength of 193 nm, see specification page 1, line 21.

³ Less than 200 nm, see page 2, lines 14-19.

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Because the UV absorption of quartz is substantial near the wavelengths of interest, it is important to make the lens thin (specification page 12, line 1).

The Applicants use a Fresnel lens on one side of a transmittal plate and a curved lens surface on the other. This combination permits the lens to be thinner, for a given focal power. Being thinner, the lens absorbs less UV, so that it stays cool and a lower-power UV source can be used. The Applicants have advanced the art by recognizing a problem and solving it, which Mori did not.

The combination is not claimed for any lens, it is claimed for a UV lens made of quartz, which has special requirements. The claimed subject matter is not random, it solves a problem.

The Applicant previously argued that Mori does not suggest to make a lens thinner; does not disclose the combination of a Fresnel lens and concave/convex surfaces; and does not even disclose a Fresnel lens (it discloses a diffraction grating). The Applicant now ask reconsideration on the additional basis that Mori does not at all disclose the *problem* dealt with by the Applicants, namely, that a quartz lens absorbs UV light in proportion to its thickness and therefore is less efficient than it could be, and therefore does not suggest any solution, much the solution claimed by the Applicants.

Respectfully submitted,

July 6, 2005_ Date

Nick Bromer, Registration No. 33,478

(717) 426-1664

RABIN & BERDO, PC Customer No. 23995

Telephone: 202-371-8976

Pacsimile: 202-408-0924

RESPONSE

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